

Helmer, Georgia

4/21/200

Subject:

D Ow 09/911,088

into

Cart

L2 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2003:152012 CAPLUS

TI Site-specific cassette exchange and germline transmission with mouse ES cells expressing .PHI.C31 integrase

AU Belteki, Gusztav; Gertsenstein, Marina; Ow, David W.; Nagy, Andras

CS Samuel Lunenfeld Research Institute, Mount Sinai Hospital, Toronto, ON, M5G 1X5, Can.

SO Nature Biotechnology (2003), 21(3), 321-324

CODEN: NABIF9; ISSN: 1087-0156

PB Nature Publishing Group

DT Journal

LA English

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2002:814310 CAPLUS

DN 137:321289

TI Expression systems to produce DNA minicircle lacking bacterial vector sequences from parent plasmid for gene therapy

IN Bigger, Brian W.; Tolmachov, Oleg; Coutelle, Charles

PA Imperial College Innovations Limited, UK

SO PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2002083889	A2	20021024	WO 2002-GB1668	20020410
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2003005478	A1	20030102	US 2002-118231	20020409
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PRAI GB 2001-8968	A	20010410
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US 2001-327029P	P	20011005
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L2 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2002:754598 CAPLUS

DN 137:274083

TI Autonomously-replicating amplifiable vectors for transformation of plant cells and site-specific integration of transgenes

IN Klimyuk, Victor; Gleba, Yuri; Marillonnet, Sylvestre

PA Icon Genetics Ag, Germany; Icon Genetics, Inc.

SO PCT Int. Appl., 74 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

PI WO 2002077246	A2	20021003	WO 2002-EP3266	20020322
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10114209	A1	20021205	DE 2001-10114209	20010323
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PRAI DE 2001-10114209 A 20010323

L2 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2002:745860 CAPLUS

DN 138:85859

TI Stable nonviral genetic correction of inherited human skin disease

AU Ortiz-Urda, Susana; Thyagarajan, Bhaskar; Keene, Douglas R.; Lin, Qun; Fang, Min; Calos, Michele P.; Khavari, Paul A.

CS Stanford University School of Medicine, Stanford, CA, USA

SO Nature Medicine (New York, NY, United States) (2002), 8(10), 1166-1170

CODEN: NAMEFI; ISSN: 1078-8956

PB Nature Publishing Group

DT Journal

LA English

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2002:489195 CAPLUS

DN 137:258122

TI Enhanced efficiency through nuclear localization signal fusion on phage .PHI.C31-integrase: activity comparison with Cre and FLPe recombinase in mammalian cells

AU Andreas, Susanne; Schwenk, Frieder; Kuter-Luks, Birgit; Faust, Nicole; Kuhn, Ralf

CS Artemis Pharmaceuticals GmbH, Koln, 51063, Germany

SO Nucleic Acids Research (2002), 30(11), 2299-2306

CODEN: NARHAD; ISSN: 0305-1048

PB Oxford University Press

DT Journal

LA English

RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2002:368516 CAPLUS

DN 136:381344

TI Recombinase-nuclear localization signal fusion and its use for DNA  
recombination in cells or organisms

IN Kuehn, Ralf; Felder, Susanne; Schwenk, Frieder; Kueter-Luks, Birgit;  
Faust, Nicole

PA Artemis Pharmaceuticals G.m.b.H., Germany

SO PCT Int. Appl., 150 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

PI	WO 2002038613	A2	20020516	WO 2001-EP12975	20011109
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1205490	A1	20020515	EP 2000-124629	20001110
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	AU 2002021829	A5	20020521	AU 2002-21829	20011109
PRAI	EP 2000-124629	A	20001110		
	EP 2001-109543	A	20010417		
	US 2001-311876P	P	20010813		
	WO 2001-EP12975	W	20011109		

L2 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2002:364022 CAPLUS

DN 136:381377

TI Integrase carrying signal peptide for site-specific recombination

IN Kuehn, Ralf; Felder, Susanne; Schwenk, Frieder; Kueter-Luks, Birgit;  
Faust, Nicole

PA Artemis Pharmaceuticals G.m.b.H., Germany

SO Eur. Pat. Appl., 54 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI EP 1205490	A1	20020515	EP 2000-124629	20001110
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
WO 2002038613	A2	20020516	WO 2001-EP12975	20011109
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002021829	A5	20020521	AU 2002-21829	20011109
PRAI EP 2000-124629	A	20001110		
EP 2001-109543	A	20010417		
US 2001-311876P	P	20010813		
WO 2001-EP12975	W	20011109		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2002:355879 CAPLUS

DN 137:105514

TI Diversity in the serine recombinases

AU Smith, Margaret C. M.; Thorpe, Helena M.

CS Institute of Genetics, Queens Medical Centre, University of Nottingham, Nottingham, NG7 2UH, UK

SO Molecular Microbiology (2002), 44(2), 299-307

CODEN: MOMIEE; ISSN: 0950-382X

PB Blackwell Science Ltd.

DT Journal; General Review

LA English

RE.CNT 61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2002:67139 CAPLUS

DN 137:2397

TI Directed evolution of a recombinase for improved genomic integration at a native human sequence

AU Scilimenti, Christopher R.; Thyagarajan, Bhaskar; Calos, Michele P.

CS Department of Genetics, Stanford University School of Medicine, Stanford, CA, 94305-5120, USA

SO Nucleic Acids Research (2001), 29(24), 5044-5051

CODEN: NARHAD; ISSN: 0305-1048

PB Oxford University Press

DT Journal

LA English

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2001:826441 CAPLUS

DN 136:364415

TI Phage R4 integrase mediates site-specific integration in human cells

AU Olivares, Eric C.; Hollis, Roger P.; Calos, Michele P.

CS Department of Genetics, Stanford University School of Medicine, Stanford, CA, 94305-5120, USA

SO Gene (2001), 278(1-2), 167-176

CODEN: GENED6; ISSN: 0378-1119

PB Elsevier Science B.V.

DT Journal

LA English

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2001:630281 CAPLUS

DN 136:227747

TI Gene insertion and replacement in Schizosaccharomyces pombe mediated by the Streptomyces bacteriophage .phi.C31 site-specific recombination system

AU Thomason, L. C.; Calendar, R.; Ow, D. W.

CS Department of Molecular and Cell Biology, University of California, Berkeley, CA, 94720-3202, USA

SO Molecular Genetics and Genomics (2001), 265(6), 1031-1038

CODEN: MGGOAA; ISSN: 1617-4615

PB Springer-Verlag

DT Journal

LA English

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2001:618208 CAPLUS

DN 135:191258

TI Methods for preparing altered recombinases for genome modification

IN Calos, Michele P.; Scimmenti, Christopher R.

PA The Board of Trustees of the Leland Stanford Junior University, USA

SO PCT Int. Appl., 100 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2001061049 A1 20010823 WO 2001-US5269 20010216

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,

YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 US 2002094516 A1 20020718 US 2001-788297 20010216  
 EP 1255868 A1 20021113 EP 2001-914401 20010216  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
 PRAI US 2000-183759P P 20000218  
 WO 2001-US5269 W 20010216  
 RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2003 ACS  
 AN 2001:411353 CAPLUS  
 DN 136:96878  
 TI Site-specific genomic integration in mammalian cells mediated by phage  
 .phi.C31 integrase  
 AU Thyagarajan, Bhaskar; Olivares, Eric C.; Hollis, Roger P.; Ginsburg,  
 Daniel S.; Calos, Michele P.  
 CS Department of Genetics, Stanford University School of Medicine, Stanford,  
 CA, 94305-5120, USA  
 SO Molecular and Cellular Biology (2001), 21(12), 3926-3934  
 CODEN: MCEBD4; ISSN: 0270-7306  
 PB American Society for Microbiology  
 DT Journal  
 LA English  
 RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2003 ACS  
 AN 2001:78496 CAPLUS  
 DN 134:126852  
 TI DNA recombination in eukaryotic cells by the bacteriophage phiC31  
 recombination system  
 IN Ow, David W.; Calendar, Richard; Thomason, Lynn  
 PA The Regents of the University of California, USA; United States Dept. of  
 Agriculture  
 SO PCT Int. Appl., 52 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001007572	A2	20010201	WO 2000-US19983	20000721
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,  
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
EP 1234022 A2 20020828 EP 2000-950558 20000721  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL  
JP 2003505065 T2 20030212 JP 2001-512843 20000721  
PRAI US 1999-145469P P 19990723  
WO 2000-US19983 W 20000721

L2 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2000:805953 CAPLUS

DN 134:97109

TI Control of directionality in the site-specific recombination system of the  
Streptomyces phage .phi.C31

AU Thorpe, Helena M.; Wilson, Stuart E.; Smith, Margaret C. M.

CS Institute of Genetics, Queens Medical Centre, University of Nottingham,  
Nottingham, NG7 2UH, UK

SO Molecular Microbiology (2000), 38(2), 232-241

CODEN: MOMIEE; ISSN: 0950-382X

PB Blackwell Science Ltd.

DT Journal

LA English

RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2000:392815 CAPLUS

DN 133:306122

TI A phage integrase directs efficient site-specific integration in human  
cells

AU Groth, Amy C.; Olivares, Eric C.; Thyagarajan, Bhaskar; Calos, Michele P.

CS Department of Genetics, Stanford University School of Medicine, Stanford,  
CA, 94305-5120, USA

SO Proceedings of the National Academy of Sciences of the United States of  
America (2000), 97(11), 5995-6000

CODEN: PNASA6; ISSN: 0027-8424

PB National Academy of Sciences

DT Journal

LA English

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2000:145009 CAPLUS

DN 132:204039

TI Methods and compositions for genomic modification by site-specific  
integration

IN Calos, Michele P.

PA The Board of Trustees of the Leland Stanford Junior University, USA

SO PCT Int. Appl., 125 pp.

CODEN: PIXXD2

DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000011155	A1	20000302	WO 1999-US18987	19990819
W: AU, CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9958985	A1	20000314	AU 1999-58985	19990819
US 2003050258	A1	20030313	US 1999-377885	19990819
PRAI US 1998-97166P	P	19980819		
WO 1999-US18987	W	19990819		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2003 ACS  
AN 1998:311758 CAPLUS  
DN 129:78359  
TI In vitro site-specific integration of bacteriophage DNA catalyzed by a recombinase of the resolvase/invertase family  
AU Thorpe, Helena M.; Smith, Margaret C. M.  
CS Department of Genetics, Queens Medical Centre, University of Nottingham, Nottingham, NG7 2UH, UK  
SO Proceedings of the National Academy of Sciences of the United States of America (1998), 95(10), 5505-5510  
CODEN: PNASA6; ISSN: 0027-8424  
PB National Academy of Sciences  
DT Journal  
LA English  
RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 19 OF 22 CABA COPYRIGHT 2003 CABI  
AN 2002:66650 CABA  
DN 20023022973  
TI Site-specific genomic integration in mammalian cells mediated by phage phi C31 integrase  
AU Thyagarajan, B.; Olivares, E. C.; Hollis, R. P.; Ginsburg, D. S.; Calos, M. P.  
CS Department of Genetics, Stanford University School of Medicine, Stanford, CA 94305-5120, USA.  
SO Molecular and Cellular Biology, (2001) Vol. 21, No. 12, pp. 3926-3934. 28 ref.  
ISSN: 0270-7306  
DT Journal  
LA English

L2 ANSWER 20 OF 22 CABA COPYRIGHT 2003 CABI  
AN 2001:121102 CABA  
DN 20013116946  
TI Gene insertion and replacement in Schizosaccharomyces pombe mediated by



the Streptomyces bacteriophage phi C31 site-specific recombination system  
AU Thomason, L. C.; Calendar, R.; Ow, D. W.  
CS Department of Molecular and Cell Biology, University of California,  
Berkeley, CA 94720-3202, USA.  
SO Molecular Genetics and Genomics, (2001) Vol. 265, No. 6, pp. 1031-1038. 26  
ref.  
ISSN: 1617-4615  
DT Journal  
LA English

L2 ANSWER 21 OF 22 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2003:153841 BIOSIS  
DN PREV200300153841  
TI Site-specific cassette exchange and germline transmission with mouse ES  
cells expressing phiC31 integrase.  
AU Belteki, Gusztav; Gertsenstein, Marina; Ow, David W.; Nagy, Andras (1)  
CS (1) Samuel Lunenfeld Research Institute, Mount Sinai Hospital, 600  
University Avenue, Toronto, ON, M5G 1X5, Canada: nagy@mshri.on.ca Canada  
SO Nature Biotechnology, (March 2003, 2003) Vol. 21, No. 3, pp. 321-324.  
print.  
ISSN: 1087-0156.  
DT Article  
LA English

L2 ANSWER 22 OF 22 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2001:515058 BIOSIS  
DN PREV200100515058  
TI Gene insertion and replacement in Schizosaccharomyces pombe mediated by  
the Streptomyces bacteriophage variant phiC31 site-specific recombination  
system.  
AU Thomason, L. C.; Calendar, R.; Ow, D. W. (1)  
CS (1) Plant Gene Expression Center, Department of Plant and Microbial  
Biology, U.S. Department of Agriculture, University of California, 800  
Buchanan St., Albany, CA, 94710: ow@pgec.ars.usda.gov USA  
SO MGG Molecular Genetics and Genomics, (August, 2001) Vol. 265, No. 6, pp.  
1031-1038. print.  
ISSN: 1617-4615.  
DT Article  
LA English  
SL English

=> c hix d his

C IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> d his

(FILE 'HOME' ENTERED AT 16:26:41 ON 29 APR 2003)

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE' ENTERED AT 16:26:54 ON 29 APR 2003

FILE 'CAPLUS, CABA, AGRICOLA, BIOSIS' ENTERED AT 16:27:17 ON 29 APR 2003

L1 10 S IRREVERSIBLE RECOMB?

L2 22 S C31 INTEGRASE

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

WO 2002038613 A2 20020516 WO 2001-EP12975 20011109

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CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,  
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,  
UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2002021829 A5 20020521 AU 2002-21829 20011109

PRAI EP 2000-124629 A 20001110

EP 2001-109543 A 20010417

US 2001-311876P P 20010813

WO 2001-EP12975 W 20011109

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2002:355879 CAPLUS

DN 137:105514

TI Diversity in the serine recombinases

AU Smith, Margaret C. M.; Thorpe, Helena M.

CS Institute of Genetics, Queens Medical Centre, University of Nottingham,  
Nottingham, NG7 2UH, UK

SO Molecular Microbiology (2002), 44(2), 299-307

CODEN: MOMIEE; ISSN: 0950-382X

PB Blackwell Science Ltd.

DT Journal; General Review

LA English

RE.CNT 61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2002:67139 CAPLUS

DN 137:2397

TI Directed evolution of a recombinase for improved genomic integration at a  
native human sequence

AU Scimmenti, Christopher R.; Thyagarajan, Bhaskar; Calos, Michele P.

CS Department of Genetics, Stanford University School of Medicine, Stanford,  
CA, 94305-5120, USA

SO Nucleic Acids Research (2001), 29(24), 5044-5051

CODEN: NARHAD; ISSN: 0305-1048

PB Oxford University Press

DT Journal

LA English

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2001:826441 CAPLUS

DN 136:364415

TI Phage R4 integrase mediates site-specific integration in human cells

AU Olivares, Eric C.; Hollis, Roger P.; Calos, Michele P.

CS Department of Genetics, Stanford University School of Medicine, Stanford,  
CA, 94305-5120, USA

SO Gene (2001), 278(1-2), 167-176

CODEN: GENED6; ISSN: 0378-1119

PB Elsevier Science B.V.

DT Journal

LA English

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2001:630281 CAPLUS

DN 136:227747

TI Gene insertion and replacement in Schizosaccharomyces pombe mediated by  
the Streptomyces bacteriophage .phi.C31 site-specific recombination system

AU Thomason, L. C.; Calendar, R.; Ow, D. W.

CS Department of Molecular and Cell Biology, University of California,  
Berkeley, CA, 94720-3202, USA

SO Molecular Genetics and Genomics (2001), 265(6), 1031-1038

CODEN: MGGOAA; ISSN: 1617-4615

PB Springer-Verlag

DT Journal

LA English

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2001:618208 CAPLUS

DN 135:191258

TI Methods for preparing altered recombinases for genome modification

IN Calos, Michele P.; Scimmenti, Christopher R.

PA The Board of Trustees of the Leland Stanford Junior University, USA

SO PCT Int. Appl., 100 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2001061049	A1	20010823	WO 2001-US5269	20010216
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,

LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,  
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,  
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
US 2002094516 A1 20020718 US 2001-788297 20010216  
EP 1255868 A1 20021113 EP 2001-914401 20010216  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
PRAI US 2000-183759P P 20000218  
WO 2001-US5269 W 20010216  
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:411353 CAPLUS  
DN 136:96878  
TI Site-specific genomic integration in mammalian cells mediated by phage  
phi.C31 integrase  
AU Thyagarajan, Bhaskar; Olivares, Eric C.; Hollis, Roger P.; Ginsburg,  
Daniel S.; Calos, Michele P.  
CS Department of Genetics, Stanford University School of Medicine, Stanford,  
CA, 94305-5120, USA  
SO Molecular and Cellular Biology (2001), 21(12), 3926-3934  
CODEN: MCEBD4; ISSN: 0270-7306  
PB American Society for Microbiology  
DT Journal  
LA English  
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:78496 CAPLUS  
DN 134:126852  
TI DNA recombination in eukaryotic cells by the bacteriophage phiC31  
recombination system  
IN Ow, David W.; Calendar, Richard; Thomason, Lynn  
PA The Regents of the University of California, USA; United States Dept. of  
Agriculture  
SO PCT Int. Appl., 52 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001007572	A2	20010201	WO 2000-US19983	20000721
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,				

SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,  
 ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 EP 1234022 A2 20020828 EP 2000-950558 20000721  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL  
 JP 2003505065 T2 20030212 JP 2001-512843 20000721  
 PRAI US 1999-145469P P 19990723  
 WO 2000-US19983 W 20000721

L2 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2000:805953 CAPLUS

DN 134:97109

TI Control of directionality in the site-specific recombination system of the  
 Streptomyces phage .phi.C31

AU Thorpe, Helena M.; Wilson, Stuart E.; Smith, Margaret C. M.

CS Institute of Genetics, Queens Medical Centre, University of Nottingham,  
 Nottingham, NG7 2UH, UK

SO Molecular Microbiology (2000), 38(2), 232-241

CODEN: MOMIEE; ISSN: 0950-382X

PB Blackwell Science Ltd.

DT Journal

LA English

RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2000:392815 CAPLUS

DN 133:306122

TI A phage integrase directs efficient site-specific integration in human  
 cells

AU Groth, Amy C.; Olivares, Eric C.; Thyagarajan, Bhaskar; Calos, Michele P.

CS Department of Genetics, Stanford University School of Medicine, Stanford,  
 CA, 94305-5120, USA

SO Proceedings of the National Academy of Sciences of the United States of  
 America (2000), 97(11), 5995-6000

CODEN: PNASA6; ISSN: 0027-8424

PB National Academy of Sciences

DT Journal

LA English

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 2000:145009 CAPLUS

DN 132:204039

TI Methods and compositions for genomic modification by site-specific  
 integration

IN Calos, Michele P.

PA The Board of Trustees of the Leland Stanford Junior University, USA

SO PCT Int. Appl., 125 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2000011155	A1	20000302	WO 1999-US18987	19990819
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W: AU, CA, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

AU 9958985	A1	20000314	AU 1999-58985	19990819
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US 2003050258	A1	20030313	US 1999-377885	19990819
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PRAI US 1998-97166P P 19980819

WO 1999-US18987 W 19990819

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2003 ACS

AN 1998:311758 CAPLUS

DN 129:78359

TI In vitro site-specific integration of bacteriophage DNA catalyzed by a recombinase of the resolvase/invertase family

AU Thorpe, Helena M.; Smith, Margaret C. M.

CS Department of Genetics, Queens Medical Centre, University of Nottingham, Nottingham, NG7 2UH, UK

SO Proceedings of the National Academy of Sciences of the United States of America (1998), 95(10), 5505-5510

CODEN: PNASA6; ISSN: 0027-8424

PB National Academy of Sciences

DT Journal

LA English

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 19 OF 22 CABA COPYRIGHT 2003 CABI

AN 2002:66650 CABA

DN 20023022973

TI Site-specific genomic integration in mammalian cells mediated by phage phi C31 integrase

AU Thyagarajan, B.; Olivares, E. C.; Hollis, R. P.; Ginsburg, D. S.; Calos, M. P.

CS Department of Genetics, Stanford University School of Medicine, Stanford, CA 94305-5120, USA.

SO Molecular and Cellular Biology, (2001) Vol. 21, No. 12, pp. 3926-3934. 28 ref.

ISSN: 0270-7306

DT Journal

LA English

L2 ANSWER 20 OF 22 CABA COPYRIGHT 2003 CABI

AN 2001:121102 CABA

DN 20013116946

TI Gene insertion and replacement in *Schizosaccharomyces pombe* mediated by the *Streptomyces* bacteriophage phi C31 site-specific recombination system

AU Thomason, L. C.; Calendar, R.; Ow, D. W.

CS Department of Molecular and Cell Biology, University of California, Berkeley, CA 94720-3202, USA.

SO Molecular Genetics and Genomics, (2001) Vol. 265, No. 6, pp. 1031-1038. 26 ref.

ISSN: 1617-4615

DT Journal

LA English

L2 ANSWER 21 OF 22 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 2003:153841 BIOSIS

DN PREV200300153841

TI Site-specific cassette exchange and germline transmission with mouse ES cells expressing phiC31 integrase.

AU Belteki, Gusztav; Gertsenstein, Marina; Ow, David W.; Nagy, Andras (1)

CS (1) Samuel Lunenfeld Research Institute, Mount Sinai Hospital, 600

University Avenue, Toronto, ON, M5G 1X5, Canada: nagy@mshri.on.ca Canada

SO Nature Biotechnology, (March 2003, 2003) Vol. 21, No. 3, pp. 321-324. print.

ISSN: 1087-0156.

DT Article

LA English

L2 ANSWER 22 OF 22 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 2001:515058 BIOSIS

DN PREV200100515058

TI Gene insertion and replacement in *Schizosaccharomyces pombe* mediated by the *Streptomyces* bacteriophage variant phiC31 site-specific recombination system.

AU Thomason, L. C.; Calendar, R.; Ow, D. W. (1)

CS (1) Plant Gene Expression Center, Department of Plant and Microbial

Biology, U.S. Department of Agriculture, University of California, 800

Buchanan St., Albany, CA, 94710: ow@pgec.ars.usda.gov USA

SO MGG Molecular Genetics and Genomics, (August, 2001) Vol. 265, No. 6, pp. 1031-1038. print.

ISSN: 1617-4615.

DT Article

LA English

SL English

=> c hix d his

C IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> d his

(FILE 'HOME' ENTERED AT 16:26:41 ON 29 APR 2003)

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE' ENTERED AT 16:26:54 ON 29 APR 2003

FILE 'CAPLUS, CABA, AGRICOLA, BIOSIS' ENTERED AT 16:27:17 ON 29 APR 2003

L1 10 S IRREVERSIBLE RECOMB?  
L2